



wave-scan DOI

The Objective Eye for a Brilliant Finish

The appearance of surface changes with the size and distinctness of structures. Structures will be perceived as being very distinct, if e.g. an edge is reflected on the surface with high contrast and sharpness. The wave-scan DOI evaluates structure size as well as the brilliance of the surface.

Total Appearance - Orange Peel and DOI

- High correlation to the visual by analyzing the structure size: Ultra short to Ultra long wave
- DOI: Distinctness of Image objective criteria for brilliance and gloss
- Classical Long wave (LW) and Short wave (SW)
- Independent of paint system and refractive index no matter whether comparing 1 K, 2 K or powder coasting
- Reproducible results on test panels and curved parts (r > 1 m)
- For solid and metallic coatings

... in one handy instrument

- portable; easy to operate with one hand
- highly reliable results due to self calibration
- operation according to your own sampling procedures
- storage of 599 readings with clear object identification
- auto-chart software for professional analysis, documentation and data management

Ordering Info

Cat. No. Description
GB-4816 wave-scan DOI

Price 19950.00

Comes complete with:

wave-scan DOI Reference tile with certificate Protective holder Interface cable

Software auto-chart on CD-ROM¹
Batteries

Operating Manual Carrying case

¹Hardware requirements:

PC with operating system: Windows® 95/98 or NT (Pentium recommended), CD-ROM drive, min. 32 MB RAM (recommended 128 MB), min. 40 MB hard-disk space, free serial and parallel interface, Excel® 97-Vers.8 for pre-prepared worksheets

Technical Specifications		
Measurement Range	Object Curvature radius > 1m	Interface serial RS 232
Long wave 0 to 100 Short wave 0 to 100	Measurement Time 4 seconds	Dimensions (H x W x L) 120 x 65 x 205 mm
Structure spectrum du < 0.1 mm	<u>Light Source</u> Laser diode, LED	Weight 2.6 lbs: (1.2 kg)
Wa 0.1 to 0.3 mm Wb 0.3 to 1.0 mm	Energy Output < 1 mW (laser class 2)	<u>Batteries</u> 4 x 1.5 Volt AA,
Wc 1.0 to 3.0 mm Wd 3.0 to 10.0 mm	CCD-Sensor 640 x 480 Pixel	 app. 1000 measurements Operating temperature
We 10.0 to 30.0 mm Repeatability ²	<u>Memory</u> 599 readings (40 profiles)	+50 °F to 104 °F (running) (+10 °C to 40 °C)
4 % or > 0.4 Reproducibility		32 °F to 140 °F (storage) (0 °C to 60 °C)
6% or > 0.6		Relative Humidity up to 85% at 95 °F (35 °C)
50 / 100 / 200 mm Resolution		
375 measurement points/cm		
2 Standard deviation		

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